



IES INDOOR REPORT
PHOTOMETRIC FILENAME : CLRL4-11L-CS1-46-830.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
[TEST] LED-13803
[TESTLAB] LSI INDUSTRIES, INC.
[ISSUEDATE] 1/3/25
[TESTDATE] 12/09/22
[MANUFAC] LSI INDUSTRIES, INC.
[LUMCAT] CLRL4-11L-CS1-46-830
[TEST PROCEDURE] IESNA LM-79-19
[ABSOLUTE] NOTE: DATA SHOWN IS ABSOLUTE FOR THE SAMPLE PROVIDED.
[FACTORED] SCALED FROM ORIGINAL TEST DATA
[SEARCH_SOURCETYPE] LED
[SEARCH_APPLICATION] Indoor
[SEARCH_COLORTEMP] 3000
[TESTED]

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	4874
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	122
Total Luminaire Watts	40
Ballast Factor	1.00
CIE Type	General Diffuse
Spacing Criterion (0-180)	N.A.
Spacing Criterion (90-270)	N.A.
Spacing Criterion (Diagonal)	N.A.
Basic Luminous Shape	Rectangular
Luminous Length (0-180)	3.70 ft
Luminous Width (90-270)	0.67 ft
Luminous Height	0.00 ft



LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	3391	3712	4057
55	3724	4173	4652
65	4003	4539	5086
75	3908	4599	5020
85	3952	3602	3051

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CANDELA TABULATION

	<u>0.0</u>	<u>22.5</u>	<u>45.0</u>	<u>67.5</u>	<u>90.0</u>
0.0	548	548	548	548	548
2.5	559	551	548	545	540
5.0	561	553	550	547	543
7.5	562	555	553	550	547
10.0	565	558	556	555	552
12.5	567	560	560	561	559
15.0	569	564	565	569	567
17.5	571	566	570	577	577
20.0	573	570	577	586	587
22.5	575	573	583	596	598
25.0	576	576	589	606	610
27.5	577	579	596	616	621
30.0	578	580	602	625	633
32.5	577	581	606	634	642
35.0	575	581	610	641	650
37.5	571	579	611	646	656
40.0	566	575	610	648	660
42.5	559	570	608	648	661
45.0	550	562	602	644	658
47.5	539	553	594	638	653
50.0	525	539	582	627	644
52.5	510	524	567	614	630
55.0	490	505	549	596	612
57.5	468	483	528	573	589
60.0	444	459	502	546	564
62.5	418	431	474	515	531
65.0	388	400	440	480	493
67.5	355	366	402	440	450
70.0	315	329	363	393	402
72.5	274	286	322	342	351
75.0	232	244	273	289	298
77.5	190	203	225	237	245
80.0	152	165	176	188	191
82.5	117	125	126	128	124
85.0	79	78	72	66	61
87.5	38	32	23	16	12
90.0	10	7	8	8	6
92.5	58	31	17	17	15
95.0	108	92	62	34	29
97.5	146	143	139	133	123
100.0	179	188	200	230	247
102.5	213	230	255	306	338
105.0	252	272	302	372	412
107.5	290	308	342	428	472
110.0	329	343	379	476	522
112.5	360	374	415	512	562
115.0	384	396	450	538	588
117.5	398	409	473	556	605
120.0	404	417	481	568	611
122.5	407	424	478	572	615
125.0	412	433	476	566	611
127.5	418	436	475	553	593
130.0	422	433	471	535	569
132.5	421	426	461	511	545

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CANDELA TABULATION - (Cont.)

135.0	415	417	445	487	517
137.5	406	410	429	471	487
140.0	395	406	421	458	464
142.5	389	400	416	442	451
145.0	388	391	409	423	438
147.5	388	382	395	408	421
150.0	389	376	384	402	409
152.5	385	375	378	395	398
155.0	379	376	377	387	384
157.5	372	376	376	380	371
160.0	368	374	370	374	366
162.5	368	371	363	369	366
165.0	371	369	358	363	365
167.5	374	369	360	360	362
170.0	374	368	363	361	360
172.5	370	365	363	361	360
175.0	365	361	359	357	355
177.5	361	356	354	352	350
180.0	353	353	353	353	353

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	213.69	N.A.	4.40
0-30	487.57	N.A.	10.00
0-40	870.63	N.A.	17.90
0-60	1826.41	N.A.	37.50
0-80	2542.13	N.A.	52.20
0-90	2626.94	N.A.	53.90
10-90	2574.2	N.A.	52.80
20-40	656.94	N.A.	13.50
20-50	1122.19	N.A.	23.00
40-70	1388.7	N.A.	28.50
60-80	715.72	N.A.	14.70
70-80	282.80	N.A.	5.80
80-90	84.81	N.A.	1.70
90-110	422.86	N.A.	8.70
90-120	879.53	N.A.	18.00
90-130	1322.3	N.A.	27.10
90-150	1932.47	N.A.	39.60
90-180	2247.17	N.A.	46.10
110-180	1824.31	N.A.	37.40
0-180	4874.1	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	52.74
10-20	160.95
20-30	273.87
30-40	383.06
40-50	465.26
50-60	490.52
60-70	432.93
70-80	282.80
80-90	84.81
90-100	90.99
100-110	331.87
110-120	456.67
120-130	442.77
130-140	352.84
140-150	257.32
150-160	176.36
160-170	103.86
170-180	34.48

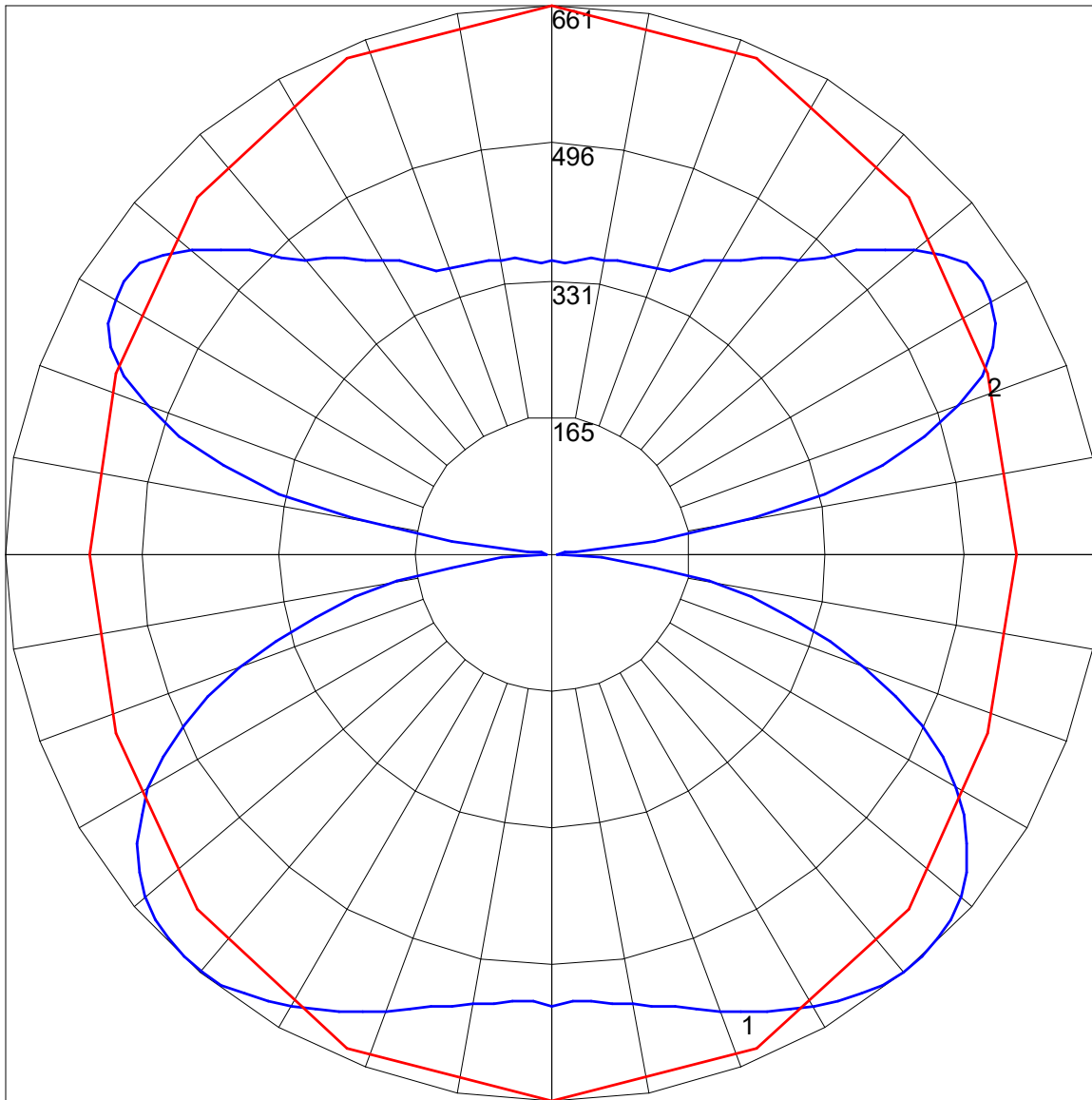
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

Effective Floor Cavity Reflectance 0.20

RC	80				70				50			30			10			0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0
0	108	108	108	108	100	100	100	100	85	85	85	72	72	72	60	60	60	54
1	98	93	88	84	90	86	82	79	73	70	68	62	60	58	51	49	48	43
2	88	80	73	67	81	74	68	63	63	58	54	53	49	46	43	41	39	34
3	79	69	61	55	73	64	57	51	55	49	44	46	42	38	38	34	32	28
4	72	60	52	45	66	56	48	42	48	42	37	40	35	32	33	29	27	23
5	66	53	45	38	61	50	42	36	42	36	31	35	31	27	29	25	22	19
6	60	47	39	33	56	44	36	31	38	31	27	32	27	23	26	22	19	16
7	56	43	34	28	51	40	32	26	34	28	23	29	24	20	24	20	17	14
8	51	38	30	25	47	36	28	23	31	25	20	26	21	18	21	18	15	12
9	48	35	27	22	44	33	25	20	28	22	18	24	19	15	20	16	13	11
10	45	32	24	19	41	30	23	18	26	20	16	22	17	14	18	14	12	10

POLAR GRAPH



Maximum Candela = 661 Located At Horizontal Angle = 90, Vertical Angle = 42.5
1 - Vertical Plane Through Horizontal Angles (90 - 270) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (42.5) (Through Max. Cd.)